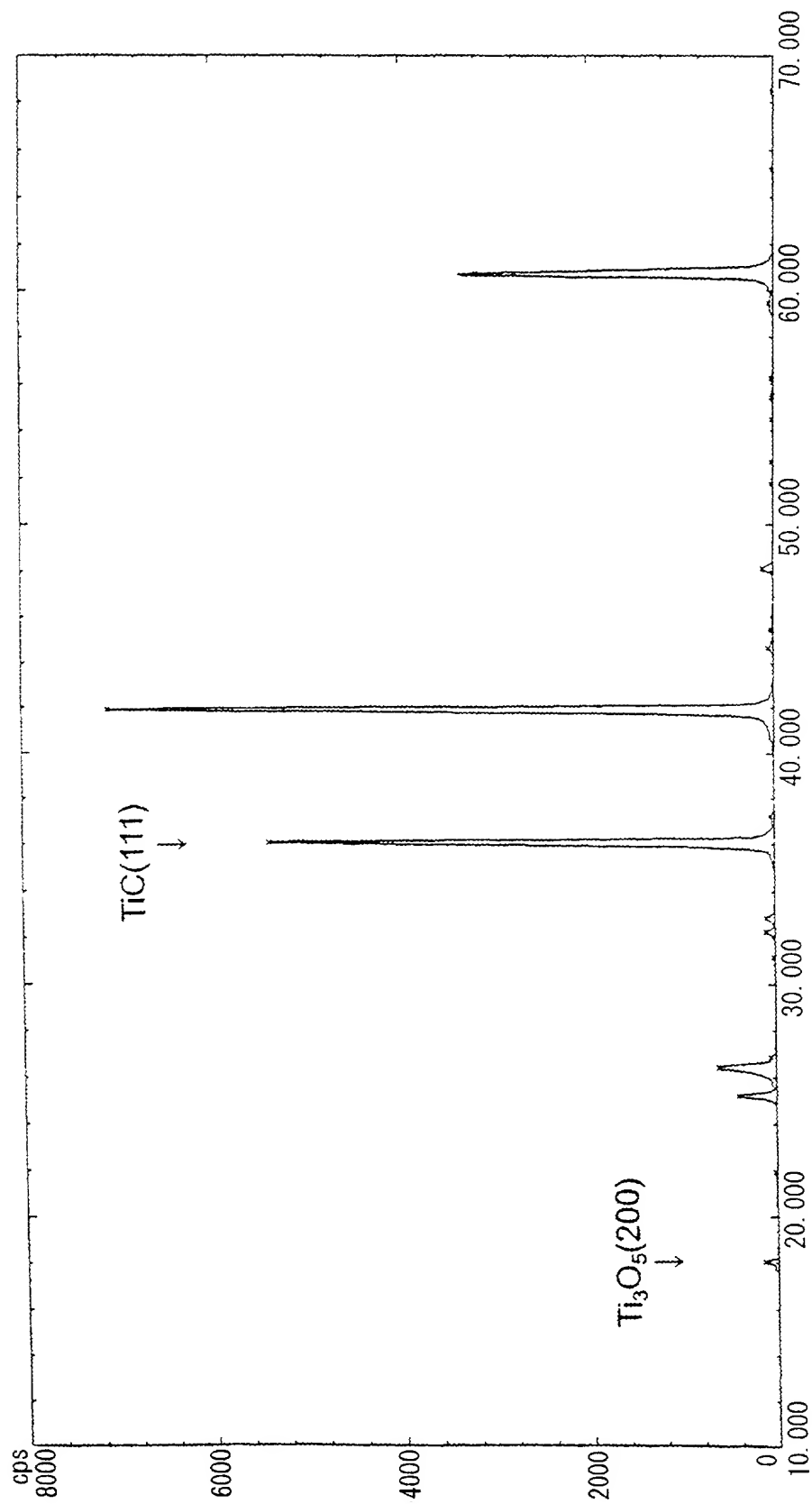


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Fig. 1



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Fig. 2

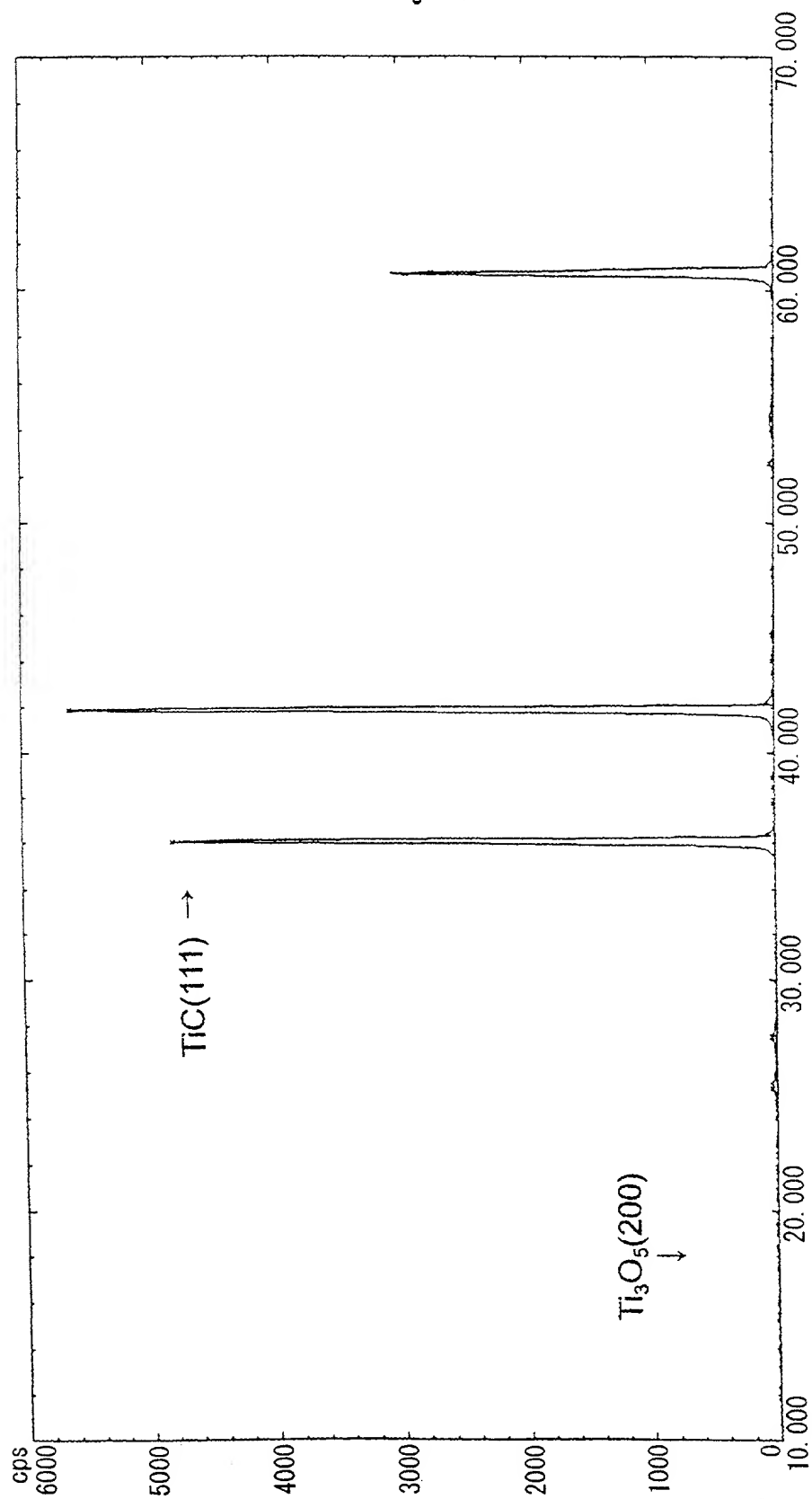


Fig. 3

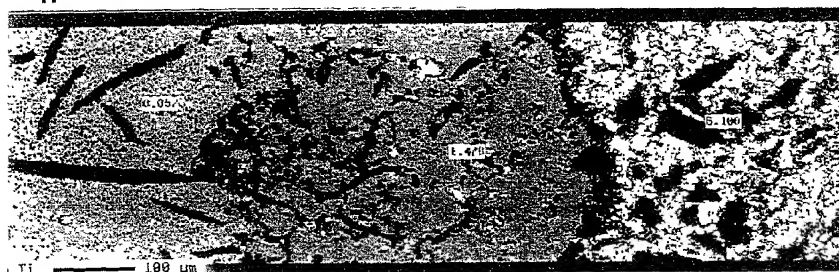
SEM



CP	Level	Area/
	1250	0.0
	1681	60.4
	1612	2.9
	1541	2.7
	1475	3.8
	1406	11.2
	1337	21.8
	1268	8.2
	1200	0.0
Area	1537	

(Melted pig iron) ← (Interface protective layer) → (Carbonaceous Refractory material)

Ti



Ti	Level	Area/
	10.000	2.5
	8.750	0.9
	7.500	1.1
	6.250	1.5
	5.000	1.6
	3.750	2.2
	2.500	2.0
	1.250	1.8
	0.000	55.1
Area	2.266	

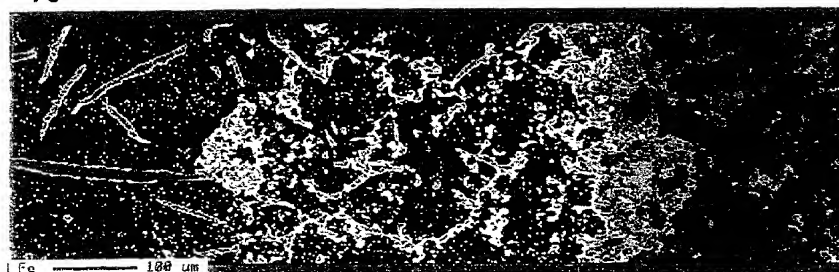
Protective layer : Ti 1.478 %

C



C	Level	Area/
	5000	12.9
	4437	1.8
	3875	1.8
	3312	1.2
	2750	1.2
	2187	1.1
	1625	1.6
	1062	2.0
	500	4.5
Area	6745	

Fe



Fe	Level	Area/
	100.00	1.7
	87.50	49.1
	75.00	4.9
	62.50	1.2
	50.00	2.6
	37.50	2.2
	25.00	2.0
	12.50	2.3
	0.00	9.1
Area	58.46	

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